SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

Form approved. Budget Bureau No. 42-R1425.

| UNITED STATES DEPARTMENT OF THE IN | TERIOR | 30:-07/5-2:4667 5. Lease designation and seein no. |
|--|------------------------------------|--|
| GEOLOGICAL SURVE | · | \$F-077951 |
| APPLICATION FOR PERMIT TO DRILL, D | EEPEN, OR PLUG E | |
| DRILL X DEEPEN | | 2. 2. 2. 2 |
| OIL CAS WELL OTHER INFILL | SINGLE X MULTIP | LE S. FASH OR LEASE NAME |
| 2. NAME OF OPERATOR | | Jack Frost "D" |
| AMOCO PRODUCTION COMPANY 3. ADDRESS OF OPERATOR | | 9. WELL NO. |
| 501 Airport Drive, Farmington, New Mexi | co 87401 | 10. FIELD AND POOL, OR WILDCAT |
| 4. LOCATION OF WELL (Report location clearly and in accordance with At surface | any State requirements.*) | Basin Dakota 11. sac., T., R., M., OR PLK. |
| ₹ 580' FSL and 1850' FWL, Section 26, T27 | I, RIOW | SE/4, SW/4, Section 26 |
| VAt proposed prod. zone Same | | 1 27 T27N, FRIOW |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST | OFFICE* | 12. COUNTY OR PARISH 13. STATE |
| 12-1/2 miles Southwest of Blanco, New Me | EXICO 16. NO. OF ACRES IN LEASE | 15 San Juan New Mexico |
| LOCATION TO NEAREST PROPERTY OR LEANE LINE, FT. FOOT | 1822.162.900 | TO THIS WALL |
| 18. DISTANCE FROM PROPOSED LOCATION* | 19. PROPOSED DEPTH | 20. ROTARY OR CABLE TOOLS |
| TO MENNEST WELL, DRIGHING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2599! | 7108! | Rotary 1 |
| 21. SLEVATIONS (Show whether DF, RT, GR, etc.) 6679' GL | • | As soon as permitted |
| · | AND CEMENTING PROGR | |
| | | QUANTITY OF CEMENT |
| | 55 390' | 300 sx Class B x 2% CaCl2-circ |
| 7-7/8" 4-1/2" (New) 10.5# K- | | Ist Stage- 380 sx CI B 50:50 POZ |
| े प्रति है है। दिल्लाहर प्रति के स्टूबर क | | 2nd Stage-1180 sx x 6% gel,2# me |
| Control of the first of the fir | | 1 2 4 5 6 5 5 6 tuf plug/sx,.8 |
| This application to drill an Infill Basir pursuant to Order No. R-1670-V approved t | y the NMOCD on | A S S S B Neat (Tail i |
| May 22, 1979. This well will qualify und | ler Section 103 | The first of the state of the s |
| of the Natural Gas Policy Act under Order | No. R-1670-V. | DV Tool set at 5034 |
| The gas from this well is dedicated to E | Paso Natural | and the same of th |
| Gas Čo. | | |
| Unorthodox location has been approved by | he NMOCD. | |
| INCCLIVE.C. | | Nov. |
| OCT TO TEST | | NOV 1 7 1980 CON. COM. DIST. 3 |
| U. S. GEOLOGICAL SURVEY | | DIOS COM |
| FARMINGTON, N. M. | | \ 3. 3 M. |
| | when book mine data on | |
| IN ABOUT SEATH DESCRIPT PROPOSED PROGRAM: If proposal is to deep tode. If or posal is to drill or deepen directionally, give perticent | data on subsurface locations of | and measured and true vertical depths. Give blowout |
| preventer program, if any. | | |
| 11, 1 Ditarra | . District Engl | neer October 3, 1980 |
| SPINED TO | LF | MIN 00:00:01 34 1900 |
| (This space for Federal or State office use) | | |
| PERMIT SIN Brue Warning | APPROVAL DATE | |
| ADDRESSED ON | | DATE |
| CONDITIONS OF APPROVAL, IS ANY : | | |

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-10? Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

| Operator | | | Lease Well No. | | | | |
|---|---|------------------|--|--|---|--|--|
| AMOCO PRODUC | CTION COMPANY | | JACK FROST "D | 19 | 1E · | | |
| Unit Letter | Section | Township | Range | County | | | |
| N · | 26 | 27N | 10W | San Juan | | | |
| Actual Footage Loca | · · | | - 0.4- | | | | |
| 580 | ··· , · · · · · · · · · · · · · · · · · | South line and | 1850 10 | et from the West | line | | |
| Ground Level Elev. | Producing For | | Pool | 1 | Dedicated Acreage: | | |
| 6673 | Dakota | | Basin Dakota | | 320 Acres | | |
| | 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. | | | | | | |
| If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- | | | | | | | |
| X Yes | dated by communitization, unitization, force-pooling.etc? X Yes No If answer is "yes," type of consolidation Operating Agreements If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of | | | | | | |
| this form if necessary.) | | | | | | | |
| | | | | tained here best of my Name | CERTIFICATION critify that the information con- in is true and complete to the knowledge and belief. | | |
| · | Se | c. | | Position DISTRIC Company AMOCO F Date JUNE 3, | PRODUCTION COMPANY | | |
| 1850' | Per de la | UFFS | RECEIVED OCT 1880 S. GEOLOGICAL SURVEY FARMINGTON, N. M. | shown and not so and so | d D 1980 Grijastona Engineer | | |
| 0 330 860 9 | 0 1320 1650 198 | 0 2310 2640 2000 | 1500 1000 8 | AZO. | Kerr Jr. | | |

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JACK FROST "D" NO. 1E 580' FSL & 1850' FWL, SECTION 26, T27N, RIOW SAN JUAN COUNTY, NEW MEXICO

| The | geologic | name | of | the | surface | formation | is | the | Tertiary Nacimiento | |
|-----|----------|------|----|-----|---------|-----------|----|-----|---------------------|--|
|-----|----------|------|----|-----|---------|-----------|----|-----|---------------------|--|

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

| FORMATION | DEPTH | ELEVATION |
|--|--------------------------------|--------------------|
| Ojo Alamo | 1410 | +5282 |
| Kirtland | 1582 ' | +5110 ' |
| Fruitland | 2185 ' | +4507 |
| Pictured Cliffs | 2435¹ | +4257 |
| Chacra (if present) | 3781 ' | +2911 ¹ |
| Mesaverde Cliff House Point Lookout | 4024 ' 4884 ' | +2668 ' +1808 ' |
| Gallup | 5960 ' | + 732 |
| Dakota | 6908 ' | - 216 |
| TD | 7108' | - 416' |
| Estimated KB elevation: 669 | 2 | |

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below

surface casing:

SP-Induction-GR BSC-TD FDC-CNL-GR BSC-TD

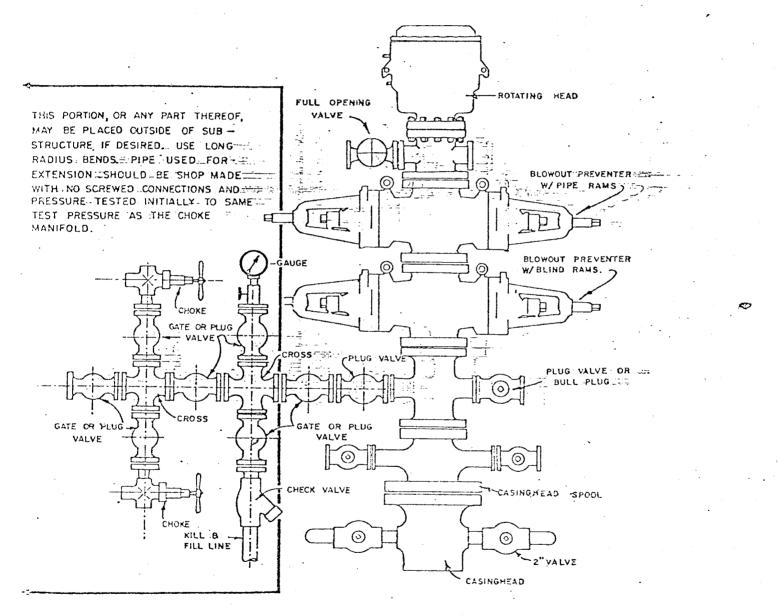
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

- 1. Blowout Prevenuers and Mascer valve to be riuid operated, and all fittings must be in good condition.
- 2. Equipment through which bit must pass shall be as large as the inside diameter of the to casing that is being drilled through.
- 3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
- 4. All fittings to be flanged.
- 5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16,1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

MULTI-POINT SURFACE USE PLAN

JACK FROST "D" NO. IE 580' FSL & 1850' FWL, SECTION 26, T27N, RIOW SAN JUAN COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will be necessary to build an access road 100 feet in length and 20 feet wide.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
- 4. There is a 380-Barrel tank and facilities located at Jack Frost "D" Well No. I, approximately two-thirds miles north-northwest.
- 5. Water will be hauled from San Juan River at Bloomfield.
- 6. No construction materials will be hauled in for this location.
- 7. A 175' by 75' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
- 8. There are neither airstrips nor camps in the vicinity.
- 9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. An 8-foot cut will be made on northeast side.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out according to Bureau of Land Management specifications.
- II. The general topography is a rough, hilly terrain sloping to the south, with sandy clayey loam soil; vegetation consists of pinon, juniper, sagebrush and native grasses.

Representatives of the U.S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

12. Operator's Representative: R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

<u>Certification</u>: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by <u>AMOCO PRODUCTION COMPANY</u> and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date September 29, 1980

R. W. Schroeder, District Superintendent

